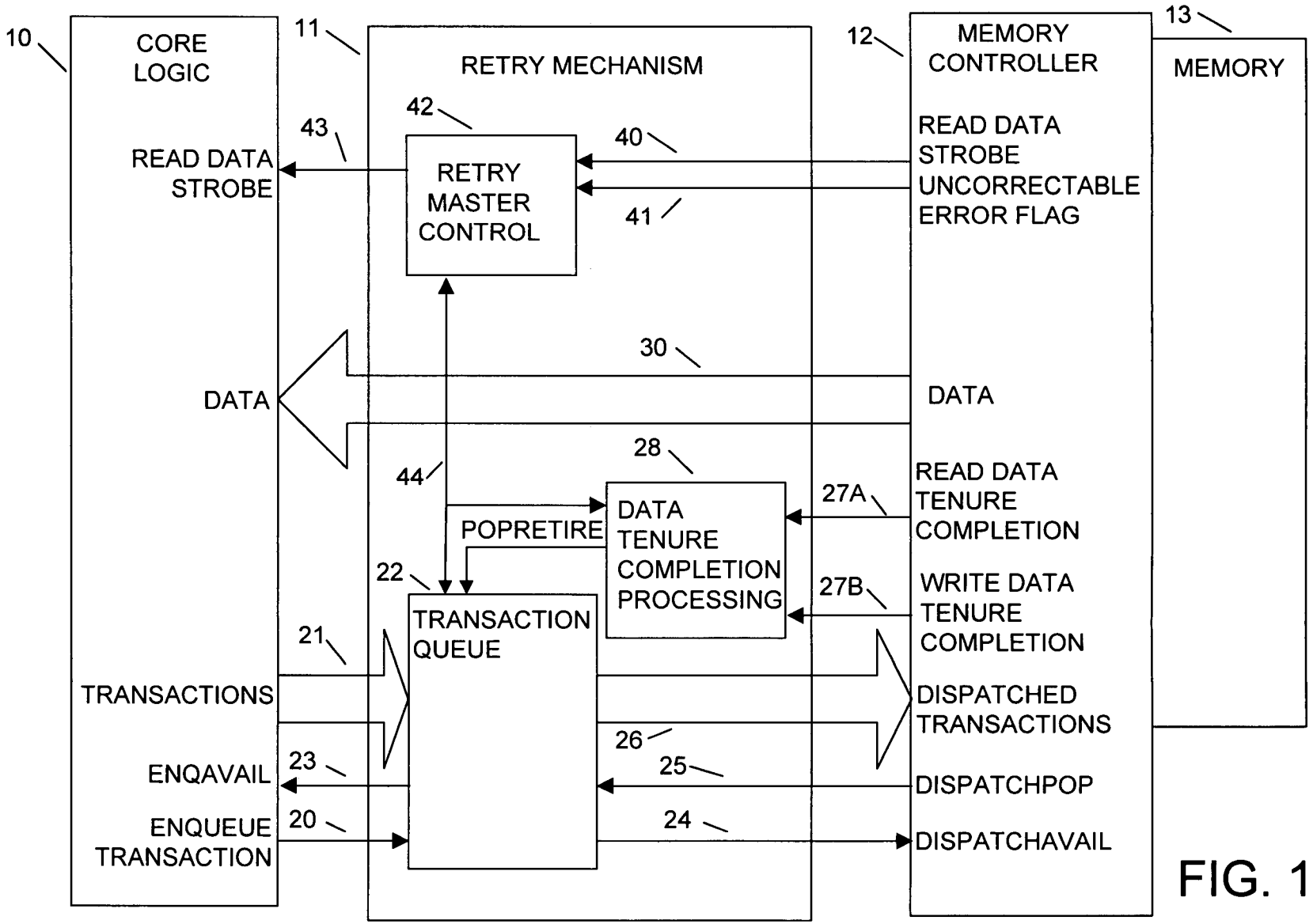
10
CORE LOGIC
11
RETRY MECHANISM
12
MEMORY CONTROLLER
13
MEMORY
42
43
40
READ DATA STROBE
RETRY MASTER CONTROL
READ DATA STROBE
UNCORRECTABLE ERROR FLAG
41
30
DATA
DATA
28
44
READ DATA TENURE COMPLETION
27A
DATA TENURE COMPLETION PROCESSING
POPRETIRE
22
27B
WRITE DATA TENURE COMPLETION
TRANSACTION QUEUE
21
TRANSACTIONS
DISPATCHED TRANSACTIONS
26
25
23
ENQAVAIL
DISPATCHPOP
20
24
ENQUEUE TRANSACTION
DISPATCHAVAIL

FIG. 1

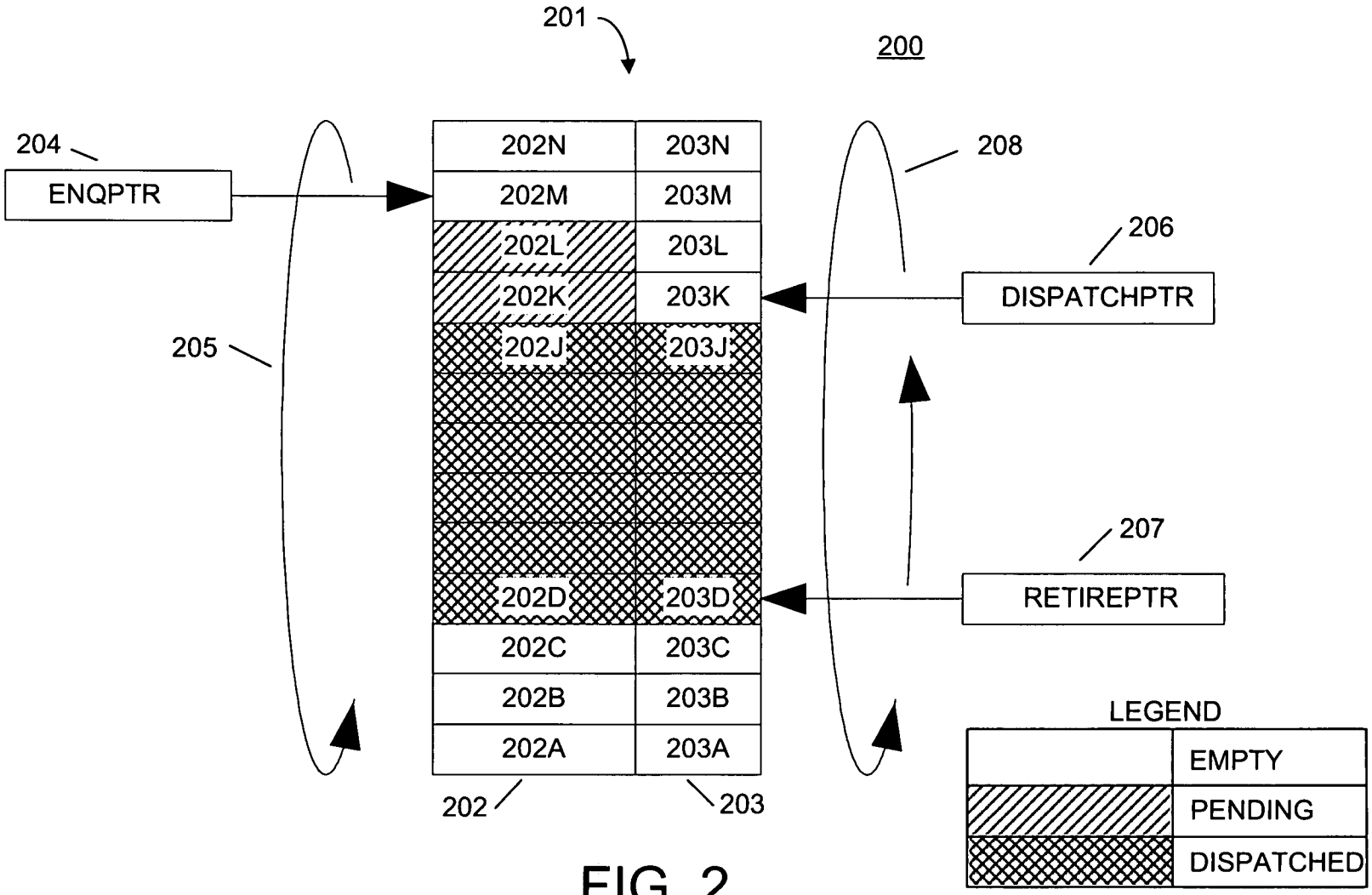
201
200
204
ENQPTR
205
208
206
DISPATCHPTR
207
RETIREPTR
202N
203N
202M
203M
202L
203L
202K
203K
202J
203J
202D
203D
202C
203C
202B
203B
202A
203A
202
203
LEGEND
EMPTY
PENDING
DISPATCHED

FIG. 2

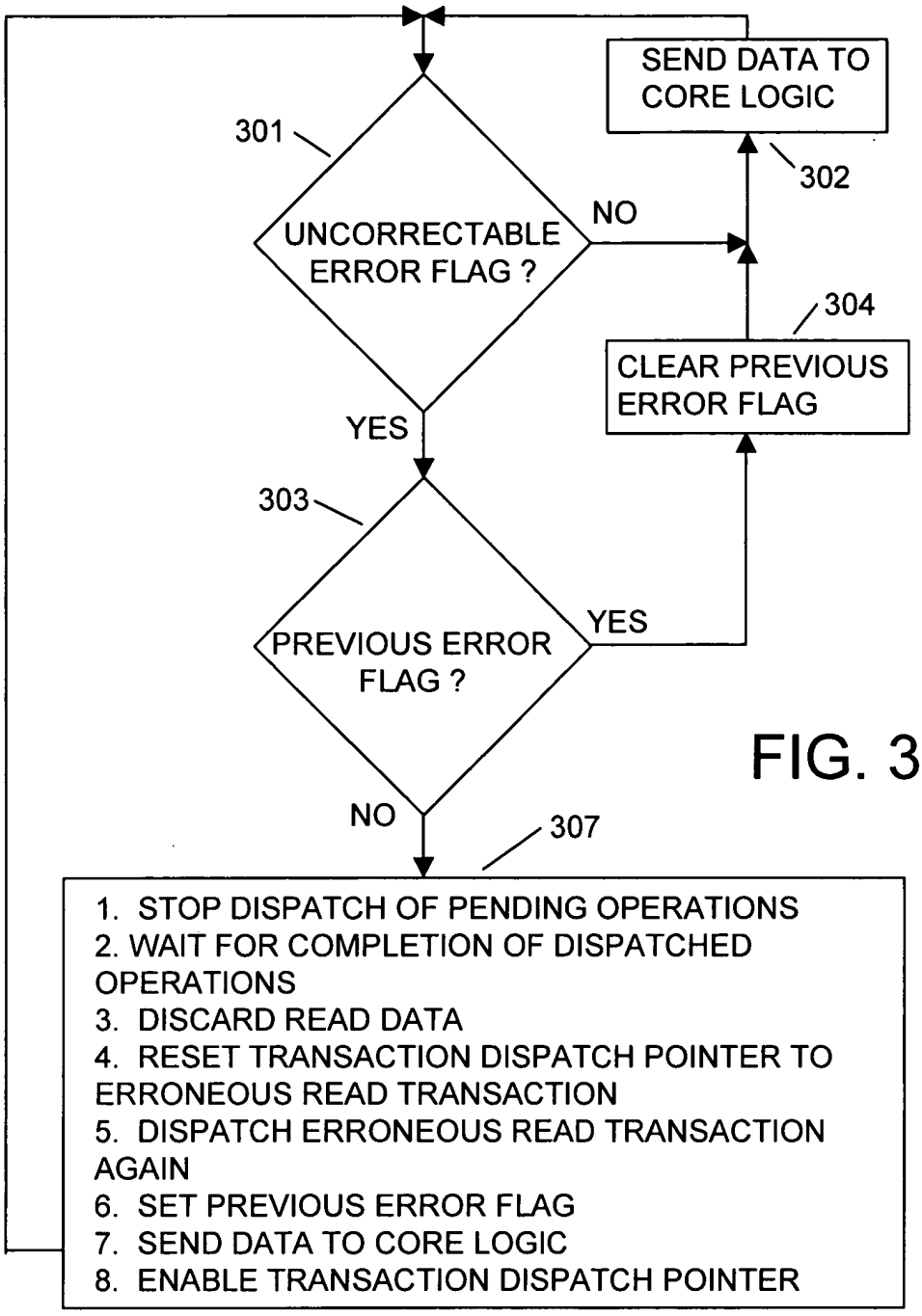
SEND DATA TO CORE LOGIC
302
301
UNCORRECTABLE ERROR FLAG ?
NO
304
CLEAR PREVIOUS ERROR FLAG
YES
303
PREVIOUS ERROR FLAG ?
YES
NO
307
1. STOP DISPATCH OF PENDING OPERATIONS
2. WAIT FOR COMPLETION OF DISPATCHED OPERATIONS
3. DISCARD READ DATA
4. RESET TRANSACTION DISPATCH POINTER TO ERRONEOUS READ TRANSACTION
5. DISPATCH ERRONEOUS READ TRANSACTION AGAIN
6. SET PREVIOUS ERROR FLAG
7. SEND DATA TO CORE LOGIC
8. ENABLE TRANSACTION DISPATCH POINTER

FIG. 3